International Application No PCT/EP-2004/002553

A. CLASS	SIFICATION OF SUBJECT MATTER		.0047 OpE333
	C12Q1/70		
According	to International Patent Classification (IPC) or to both national c	assification and tPC	
B. FIELDS	SSEARCHED		
Minimum d	focumentation searched (classification system followed by clas	sification symbols)	
110 /			
Document	ation searched other than minimum documentation to the exten	t that such documents are included in the field	ds searched
Electronic	data base consulted during the international search (name of o	ata hase and where provided according	
EPO-Ir Data	nternal, Sequence Search, WPI Dat	a, PAJ, MEDLINE, BIOSIS,	EMBASE, CHEM ABS
	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of	the relevant passages	Relevant to claim No.
X	ZHOU D-J ET AL.: "One-step de assay for detection SARS association	uplex RT-PCR	1-4,16,
	coronavirus" VIROLOGICA SINICA,	crated	17,20
	vol. 18, no. 3, June 2003 (200 232-236, XP008033949	03-06), pages	
abstract; figures 2,3; tables		1,2	6,8,
			10-12,
			14,18, 19,21
		-/	, , , , ,
X Furt	her documents are listed in the continuation of box C.	V Patent tamily mambas	
	tegories of cited documents:	X Patent family members are list	eo in annex.
'A" docume	ent defining the general state of the last which is not	"T" later document published after the or priority date and not in conflict v	With the englication but
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O" docume	ent referring to an oral disclosure, use , exhibition or	"Y" document of particular relevance; the cannot be considered to involve as	re claimed invention
P" docume	neans Ont published prior to the international filing date but ian the priority date claimed	ments, such combination being ob in the art.	more other such docu- vious to a person skilled
	actual completion of the international search	"&" document member of the same pate Date of mailing of the international a	<u> </u>
10	6 November 2004	0 1 DEC 2004	
lame and m	Pailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Knehr, M	
m PCT/ISA/2	10 (second sheet) (January 2004)		

International Application No
PCT/EP2004/002553

Category °	Citation of document, with indication, where account in the second control of the second	
	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JIE Y ET AL.: "Clinical detection of polymerase gene of SARS-associated	1-4,16,
	ACADEMIC JOURNAL OF THE FIRST MEDICAL COLLEGE OF PLA, vol. 23, no. 5, May 2003 (2003-05), pages 424-427, XP008033954 abstract	
	DROSTEN C ET AL: "IDENTIFICATION OF A NOVEL CORONAVIRUS IN PATIENTS WITH SEVERE ACUTE RESPIRATORY SYNDROME" NEW ENGLAND JOURNAL OF MEDICINE, MASSACHUSETTS MEDICAL SOCIETY, BOSTON, MA, US,	14
	vol. 348, no. 20, 15 May 2003 (2003-05-15), pages 1967-1976, XP001182527 ISSN: 1533-4406 cited in the application abstract page 1969, column 1, last paragraph - column 2, paragraph 2 page 1971, column 2, last paragraph - page 1972, column 1, paragraph 2; figure 2;	18
	tables 1,2 SHI R ET AL: "DESIGN AND APPLICATION OF 60MER OLIGONUCLEOTIDE MICROARRAY IN SARS CORONAVIRUS DETECTION"	1,2,8
	CHINESE SCIENCE BULLETIN, SCIENCE PRES, BEIJING, CN, vol. 48, no. 12, June 2003 (2003-06), pages 1165-1169, XP008033964 * see especially oligo18 within Tab.1 * abstract; table 1	
	WO 02/066501 A (HYBRIGENICS; LABIGNE AGNES (FR); DE REUSE HILDE (FR); LEGRAIN PIERRE) 29 August 2002 (2002-08-29) * see especially page 513 * abstract; example 9	1,2,10
	WO 01/47944 A (CURAGEN CORP; LEACH MARTIN (US); SHIMKETS RICHARD A (US)) 5 July 2001 (2001-07-05) * see especially page 2110 * abstract; claim 1	1,2,8
ļ		

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International Application No PCT/EP2004/002553

Category* Citation of document, with indication, where appropriate, of the relevant passages Pelevant to claim No. DATABASE EMBL 'Online! EUROPEAN MOLECULAR BIOLOGY LABORATORY; 21 April 2001 (2001-04-21), KIM HET AL.: "Cloning and characterization of novel genes related with the development of rat brain" XP002305848 retrieved from EMBL Database accession no. AT005537 abstract Y DEIMAN B ET AL: "CHARACTERISTICS AND APPLICATIONS OF NUCLEIC ACID SEQUENCE-BASED AMPLIFICATION (NASBA)" MOLECULAR BIOTECHNOLOGY, TOTOWA, NJ, US, vol. 20, no. 2, February 2002 (2002-02), pages 163-179, XP009007141 ISSN: 1073-6085 the whole document KSIAZEK T G ET AL: "A novel coronavirus associated with severe acute respiratory syndrome" NEW ENGLAND JOURNAL OF MEDICINE, MASSACHUSETTS MEDICAL SOCIETY, BOSTON, MA, US, vol. 348, no. 20, 15 May 2003 (2003-05-15), pages 1953-1966, XP002276003 ISSN: 1533-4406 cited in the application the whole document	C.(Continu	PCT/EP2004/002553	
DATABASE EMBL 'Online! EUROPEAN MOLECULAR BIOLOGY LABORATORY; 21 April 2001 (2001-04-21), KIM H ET AL.: "Cloning and characterization of novel genes related with the development of rat brain" XP002305848 retrieved from EMBL Database accession no. AT005537 abstract DEIMAN B ET AL: "CHARACTERISTICS AND APPLICATIONS OF NUCLEIC ACID SEQUENCE-BASED AMPLIFICATION (NASBA)" MOLECULAR BIOTECHNOLOGY, TOTOWA, NJ, US, vol. 20, no. 2, February 2002 (2002-02), pages 163-179, XP009007141 ISSN: 1073-6085 the whole document KSIAZEK T G ET AL: "A novel coronavirus associated with severe acute respiratory syndrome" NEW ENGLAND JOURNAL OF MEDICINE, MASSACHUSETTS MEDICAL SOCIETY, BOSTON, MA, US, vol. 348, no. 20, 15 May 2003 (2003-05-15), pages 1953-1966, XP002276003 ISSN: 1533-4406 cited in the application the whole document CN 1 458 281 A (HUANDIU ZHONGJIA BIOLOGICAL SCIENCE & TECHNOLOGY) 26 November 2003 (2003-11-26) * see especially SEQ ID NO:45, nucleotides 1-20 *	Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
SEQUENCE-BASED AMPLIFICATION (NASBA)" MOLECULAR BIOTECHNOLOGY, TOTOWA, NJ, US, vol. 20, no. 2, February 2002 (2002-02), pages 163-179, XP009007141 ISSN: 1073-6085 the whole document KSIAZEK T G ET AL: "A novel coronavirus associated with severe acute respiratory syndrome" NEW ENGLAND JOURNAL OF MEDICINE, MASSACHUSETTS MEDICAL SOCIETY, BOSTON, MA, US, vol. 348, no. 20, 15 May 2003 (2003-05-15), pages 1953-1966, XP002276003 ISSN: 1533-4406 cited in the application the whole document CN 1 458 281 A (HUANQIU ZHONGJIA BIOLOGICAL SCIENCE & TECHNOLOGY) 26 November 2003 (2003-11-26) * see especially SEQ ID NO:45, nucleotides 1-20 *	Y	EUROPEAN MOLECULAR BIOLOGY LABORATORY; 21 April 2001 (2001-04-21), KIM H ET AL.: "Cloning and characterization of novel genes related with the development of rat brain" XP002305848 retrieved from EMBL Database accession no. AT005537	
Syndrome" NEW ENGLAND JOURNAL OF MEDICINE, MASSACHUSETTS MEDICAL SOCIETY, BOSTON, MA, US, vol. 348, no. 20, 15 May 2003 (2003-05-15), pages 1953-1966, XP002276003 ISSN: 1533-4406 cited in the application the whole document CN 1 458 281 A (HUANQIU ZHONGJIA BIOLOGICAL SCIENCE & TECHNOLOGY) 26 November 2003 (2003-11-26) * see especially SEQ ID NO:45, nucleotides 1-20 *	Y	SEQUENCE-BASED AMPLIFICATION (NASBA)" MOLECULAR BIOTECHNOLOGY, TOTOWA, NJ, US, vol. 20, no. 2, February 2002 (2002-02), pages 163-179, XP009007141 ISSN: 1073-6085	11,12, 14,19,21
BIOLOGICAL SCIENCE & TECHNOLOGY) 26 November 2003 (2003-11-26) * see especially SEQ ID NO:45, nucleotides 1-20 *		syndrome" NEW ENGLAND JOURNAL OF MEDICINE, MASSACHUSETTS MEDICAL SOCIETY, BOSTON, MA, US, vol. 348, no. 20, 15 May 2003 (2003-05-15), pages 1953-1966, XP002276003 ISSN: 1533-4406 cited in the application	
		26 November 2003 (2003-11-26) * see especially SEQ ID NO:45, nucleotides 1-20 *	15

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Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: See FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 13

Present claim 13 relates to a pair of oligonucleotides defined by reference to the following parameters:
'...each oligonucleotide being 15-30 nucleotides in length and comprising at least a fragment of 18 nucleotides, and preferably being 18-26 nucleotides in length, and comprising at least a fragment of 20 nucleotides.'

It is without saying that it is impossible to specifiy an oligonucleotide when its length parameter does not fit (at all) within a given range of oligonucleotide lengths. Therefore, it is contradictory that an oligonucleotide of e.g. 15 nucleotides should comprise at least a length of 18 nucleotides. The same is true for an oligonucleotide of e.g. 18 nucleotides comprising at least a length of 20 nucleotides.

It is not clear in the light of the description what should be the minimal lengths of the oligonucleotides as specified in claim 13. Therefore, the use of these parameters in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. The lack of clarity is such as to render a meaningful search impossible. Consequently, no search has been carried out for claim 13.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 02066501	A	29-08-2002	WO	02066501 A2	29-08-2002
W0 0147944	Α	05-07-2001	AU CA EP WO	2914 5 01 A 2395926 A1 1244688 A1 0147944 A2	09-07-2001 05-07-2001 02-10-2002 05-07-2001
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